

EG&G ROCKY FLATS

91 RF 66 44

91-RF-6644

MONTHLY UPDATE ON STATUS OF PONDCRETE OPERATIONS - JMK-0714-91

Attached is a status report for Waste Repacking and Solidification (WR&S) from August 27, 1991 through September 28, 1991. Upon your approval, please forward this report to the Colorado Department of Health. Copies are also to be provided to the Environmental Protection Agency and the Rocky Flats Environmental Monitoring Council.

J M Kersh
J M Kersh

DRP CIV

Orig and 3 cc - R M Nelson, Jr

Attachment
As Stated

CLASSIFICATION

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Attachment 1
91-RF-6644

FOR PONDCRETE OPERATIONS
AUGUST 27, 1991 THROUGH SEPTEMBER 28, 1991

BUILDING 788

Approximately 272,861 gallons of liquid were transferred from the 207 ponds to Building 374 Liquid Waste Operations during the reporting period

STORAGE PAD 750

There were no spills found during the ongoing inspections of the pad during the reporting period. Approximately 50,800 gallons of runoff liquid were pumped and transferred by truck to Building 374 Liquid Waste Operations

STORAGE PAD 904

There were no spills found during the ongoing inspections of the pad during the reporting period. Approximately 44,400 gallons of runoff liquid were pumped and transferred by truck to Building 374 Liquid Waste Operations

904 AND 750 WR&S STORAGE AREAS
RESULTS FROM ANALYSIS OF GRAB SAMPLES

Analytical results from analysis of grab samples collected at the 750 and 904 Pondcrete storage areas are summarized below. This report includes all data for which analytical results were available from August 27, 1991 through September 28, 1991. The plant guide for Nitrate discharges is 10 mg/l, for gross Alpha is 40 pCi/l, and for gross Beta is 50 pCi/l. Also included are the Cyanide, Cadmium, and Ammonia results upon availability.

TABLE 1
750 CULVERT

SAMPLE DATE	NITRATE mg/l	GROSS ALPHA pCi/l	GROSS BETA pCi/l	TOTAL DISSOLVED SOLIDS (mg/l)
08/08/91	3.24	7±2	8±2	472
08/14/91	3.48	6±2	7±2	496
08/21/91	1.66	5±2	6±2	413
08/28/91	2.54	5±1	4±1	401
09/04/91	1.56	5±2	6±4	380

TABLE 2
750 PAD PUDDLE

SAMPLE DATE	NITRATE mg/l	GROSS ALPHA pCi/l	GROSS BETA pCi/l	CYANIDE mg/l	CADMIUM µg/l	AMMONIA mg/l	TOTAL DISSOLVED SOLIDS (mg/l)
08/15/90*	0.68	3±2	9±4	0.003	5.24	1.08	118
07/11/91	1.24	1.0±1.0	12±2	<0.003	15.7	2.0	21
08/03/91	0.12	0.8±0.4	3±1	<0.003	<4.0	0.04	8
08/06/91	0.51	1.2±0.4	5±1	<0.003	<4.0	0.50	16

TABLE 3
904 PAD PUDDLE

SAMPLE DATE	NITRATE mg/l	GROSS ALPHA pCi/l	GROSS BETA pCi/l	CYANIDE mg/l	CADMIUM µg/l	AMMONIA mg/l	TOTAL DISSOLVED SOLIDS (mg/l)
08/15/90*	<0.02	8±2	23±4	<0.003	6.10	0.02	82
07/11/91	2.18	3±1	14±2	0.005	8.7	3.3	62
08/03/91	0.37	0.5±0.4	2±1	<0.003	<4.0	0.31	7
08/06/91	0.48	0.6±0.4	5±1	<0.003	<4.0	0.53	5

These data were gathered as part of the routine environmental monitoring conducted by Environmental Management to screen runoff waters from the pads. Care must be used in any interpretation of these data, which are derived from grab samples taken in a dynamic system.

Attachment 3
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207 SERIES POND ANALYSIS (QUARTERLY)
ADDITIONAL ANALYSES FOR INFORMATIONAL PURPOSES ONLY

DATE	SAMPLE ID	TEST	RESULT	UNITS
10/24/90*	207A	Tritium	$<2.6 \times 10^2$	pCi/l
		Plutonium 239	0.73 ± 0.38	pCi/l
		Uranium 238	$4.3 \pm 0.38 \times 10^2$	pCi/l
		Uranium 235	16.3 ± 2.7	pCi/l
		Uranium 234	$4.1 \pm 0.36 \times 10^2$	pCi/l
		Americium 241	1.58 ± 1.85 (MDA 4.2)	pCi/l

*Data recently received from laboratory Data not previously reported